

Date: Sun, 26 Jun 94 18:34:00 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #708  
To: Info-Hams

Info-Hams Digest                      Sun, 26 Jun 94                      Volume 94 : Issue 708

Today's Topics:

Amateur Radio Newsline #880 24 Jun 94  
ANS-176 BULLETINS  
Cage Dipole Rings  
IPS Daily Report - 26 June 94  
Mark Your Calendars Now!  
What causes pitch shift in receiver? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 27 Jun 1994 00:13:00 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!udel!news2.sprintlink.net!news.sprintlink.net!  
news.dorsai.org!bigsteve@network.ucsd.edu  
Subject: Amateur Radio Newsline #880 24 Jun 94  
To: info-hams@ucsd.edu

The electronic publication of the Amateur Radio Newsline is distributed  
with the permission of Bill Pasternak, WA6ITF, President and Editor of  
Newsline. The text version is edited from the original scripts and  
transcribed from the audio reports by Dale Cary, WD0AK0, and is first  
published in The Radio & Electronics Round Table on the Genie Online  
System.

If you have any comment, suggestion, or news item you would like to submit,  
send them via E-Mail to 3241437@mcimail.com or B.PASTERNAK@genie.geis.com.  
You can contact Newsline at +1 805-296-7180. It is a combination answering  
and FAX machine, if you have a FAX to send, wait for the voice prompt and

press your fax-send button.

All other information and disclaimers are in the text header below.

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NEWSLINE RADIO - CBBS EDITION #130 - POSTED 06/16/94

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The following is late news about Amateur Radio for Radio Amateurs as prepared from NEWSLINE RADIO scripts by the staff of the AMATEUR RADIO NEWSLINE, INC. -- formerly the WESTLINK RADIO NETWORK. For current information updates, please call

#### Audio Version of Newsline

=====

|  |                |
|--|----------------|
| Los Angeles.....                       | (213) 462-0008 |
| Los Angeles (Instant Update Line)..... | (805) 296-2407 |
| Seattle.....                           | (206) 368-3969 |
| Seattle.....                           | (206) 281-8455 |
| Tacoma.....                            | (206) 927-7373 |
| Louisville.....                        | (502) 894-8559 |
| Dayton.....                            | (513) 275-9991 |
| Chicago.....                           | (708) 289-0423 |
| New York City.....                     | (718) 353-2801 |
| Melbourne, FL.....                     | (407) 259-4479 |

#### Electronic Hardcopy Version of Newsline

=====

|                                       |                |
|---------------------------------------|----------------|
| GEnie (RTC Bulletin Board).....       | m345;1         |
| GEnie (File Library).....             | m345;3         |
| Dallas Remote Imaging BBS (DRIG)..... | (214) 492-7573 |
| In bulletin number 36                 |                |

The Midwest Connection BBS..... (701) 239-2440  
In bulletin number 6 of the ham radio conference  
Delphi.....  
In the ham radio conference  
Internet.....  
In the rec.radio.info, rec.radio.amateur.misc and sbay.hams  
newsgroups.  
FTP: oak.oakland.edu, archive: pub/hamradio/docs/newsline  
Fidonet, RIME, Intellec, I-Link.....  
In the Ham Radio conferences on those networks

For the latest breaking info call the Instant Update Line listed  
above. To provide information please call (805) 296-7180. This  
line answers automatically and will accept up to 30 minutes of  
material.

Check with your local amateur radio club to see if NEWSLINE  
can be heard weekly on the air in your area.

Articles may be reproduced if printed in their entirety and  
credit is given to AMATEUR RADIO NEWSLINE as being the source.

For further information about the AMATEUR RADIO NEWSLINE,  
please write to us with an SASE at P.O. Box 463, Pasadena, CA  
91102.

Thank You  
NEWSLINE

(\*\*\*\*\*)

Some of the hams of NEWSLINE RADIO...

WA6ITF WB6MQV WB6FDF K6DUE W6RCL N6AHU N6AWE N6TCQ K6PGX N6PNY  
KU8R N8DTN W9JUV KC9RP K9XI KB5KCH KC5UD KC0HF G8AUU WD0AKO DJ0QN  
and many others in the United States and around the globe!!!

(\*\*\*\*\*)

[880]

Newsline report number 880 for release on Friday, June 24 1994  
to follow.

The following is a QST

Postal authorities could be called to investigate the alleged  
California ham radio testing scam. Accusations are surfacing

that some hams may have bought their licenses by mail! This story and more on Newsline report number 880 coming your way right now!

(\*\*\*\*\*

#### FRAUD SUSPECTED IN CAL VE TESTING SCAM

Charges of mail fraud could be levied against one or more of the Volunteer Examiners and several license applicants currently under government scrutiny in the ongoing California ham radio testing fraud probe. Newsline has learned that the FCC has interviewed a number of individuals in other parts of the country whose examination paperwork seems to indicate that they came to California to be tested by several of the suspect VE teams. According to usually reliable sources, at least one applicant claims to have driven over 2000 miles round trip in one weekend, just to be tested in Los Angeles. Another was found to be a resident of a South Eastern state.

Word is that the FCC does not believe that the examination sessions in question ever took place. That they were created on paper and are therefore fraudulent. And under the vigilant eye of Personal Radio Branch Chief John B. Johnston, W3BE, the commission is hard at work building evidence to make the charges stick.

The June 19th edition of the Westlink Report ham radio newsletter contains what it claims are quotes from the letters sent by Johnston to those suspected of complicity. It alleges that numerous testing sessions the VE's claimed to have sponsored never actually took place. That in some sessions that were held the applicants had access to the answer key for the test being given to them and most important. Most important, the FCC says that it had its own investigator listening in on the telephone when an informant cut a deal with one of the suspect Volunteer Examiners. A cash deal to purchase a ham license without the informant having to take a test.

If Johnston can prove that people purchased government licenses without having attended a test session, and if the United States Postal Service was used to convey payment, then the Postal Inspector can be brought into the case. Under his purview, charges of mail fraud can be brought against those who sold the bogus licenses and those who bought them.

The bottom line is that mail fraud is a criminal offense that carries heavy fines and mandatory jail time. The governments hard nosed approach to dealing with those it suspects of wrong doing in the California VE investigation seems to indicate that the government is prepared to take these cases all the way.

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#### ARRL REPLIES TO VANITY CALL SIGN PLAN

The ARRL has filed reply comments in the FCC's proposal to institute a vanity call sign program as outlined in PR Docket 93-305. The League says that the vast majority of the 109 comments filed on the proposal favored it, with the major concerns being how to fairly administer it.

In its reply comments the league said that the issue of cost already had been settled, in that amateurs themselves would pay for the privilege of selecting a call sign. Regarding Silent Key call signs, the League said that by giving family members and clubs the first opportunity to apply for such call signs, well known and respected amateurs' call signs could be preserved.

(\*\*\*\*\*

#### ARRL TO W5YI: NO

The League says that a proposal by newsletter publisher and national VEC Fred Maia, W5YI of Dallas Texas to establish a "Vanity Call Sign Administration" program in the private sector, was not only not permitted within FCC's mandate from Congress, but would be cumbersome and bureaucratic, while adding no value for the applicant. Instead, the League urged the Commission to proceed with a Report and Order on the "vanity" call sign proposal, incorporating the minor modifications suggested in the earlier ARRL comments.

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#### POWER REQUEST DENIED

The FCC has affirmed the Chief, Private Radio Bureau's denial of a request by Dale Gagnon, KW1I for a waiver of the Commission's rules governing transmitter power standards in the Amateur Service. Gagnon requested permission for his amateur station to transmit at power levels greater than the 1,500 watts authorized by the Commission's rules.

Gagnon requested the need for higher power in order to engage in long-distance communications. Gagnon also sought to avoid the cost of bringing his vintage transmitters into compliance.

Affirming the Bureau's decision, the Commission said that Gagnon had not submitted any compelling arguments why his station should be given preferential treatment over other amateur stations operated by licensees of the same license class. The Commission said also that there is no basis for permitting Gagnon's station to use greater power than other amateur stations, and to do otherwise, would be unfair to other amateur station licensees who must comply with the power requirement.

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#### THE LONG WAIT RETURNS

The Amateur license application backlog is on the rise again at the FCC. The latest figures released are based on numbers that are three months old but do show a definite trend. As of Feb 1 st, there were applications 8543 were pending while on Feb 28 there were 12,868 awaiting action. This information is according to ARRL VEC Manager Bart Jahnke, KB9NM, who also says turnaround time in Gettysburg is hovering around the FCC's self imposed maximum of 90 days.

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#### NEWSLINE

Heres a quick update on the financial crunch facing Newsline. Dr. Norm Chalfin, K6PGX, who administers the Newsline Support Fund reports that he has received enough in the way of sponsorship so that Newsline can continue at least through the end of August, but after that the service will once again be in crisis mode. That is, looking for enough money to avoid having its telephones and electronic mail services turned off. But the good news is that Newsline will not have to go bi-weekly over the summer since enough support has come in to see the service through though the next sixty days.

For information on how to help keep Newsline on the air, please talk off the air to the person running this bulletin on your repeater or net. Or you can write with a self addressed stamped envelope to Newsline in care of Dr. Norm Chalfin, K6PGX, Post Office Box 463, Pasadena, California 91102.

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#### SERA TO MEET

A new ham television bandplan for the south eastern region of the United States could be on its way. This, with word in the Repeater Journal that the SouthEastern Repeater Association Board of Directors will hold their annual Summer Board meeting July 23-24 in Knoxville, Tennessee.

Directors and Vice Directors from each of the eight member SERA states will take up a number of band planning questions including addressing the bandplan for ATV operations in the region. Hams active and knowledgeable in the ham television mode have been invited to attend and participate in establishing a viable bandplan for the mode. Another item on the agenda will be the possible expansion of the SERA 440 MHz bandplan.

The SouthEastern Repeater Association is the nations second largest "regional umbrella" coordination body overseeing Amateur Radio relay communications bandplanning through member affiliates in Kentucky, Mississippi, North Carolina, South Carolina,

Virginia, Tennessee, West Virginia and Georgia.

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#### ATLANTIC DIVISION AWARDS

The ARRL Atlantic Division "Amateur of the Year" for 1994 is Bob Bennett, W3WCQ, of Towson, Maryland. Among his many contributions to Amateur Radio, Bennett, 58, co-anchors the "Answer Man Net" on the Baltimore Amateur TV Society repeater.

After serving for nearly 10 years as the Atlantic Division representative to the ARRL UHF/VHF Advisory Committee, in 1993 Bennett was named chairman of the new ARRL Spectrum Committee.

The Division's Technical Achievement award was won jointly by Bill Ferguson, WA3BXW, of Bristol, Pennsylvania, and Charles "Jim" Smith, K3ATI, of Newportville, Pennsylvania.

And the "Grand Ole Ham" is 94-year-old Dean Wallace, K2ANM, of Herkimer, New York. Dean was first licensed in 1919, as 8AAF.

The awards were announced at the ARRL Atlantic Division Convention, held in conjunction with the Rochester (New York) Hamfest, on May 21, 1994.

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#### HOLLY TO SPEAK

Rain Dial-Up producer Hap Holly, KC9RP, will make a rare personal appearance on July 7th at the American Council of the Blind convention in Chicago. Holly's talk is titled "The Evolution of Amateur Radio Information services" and will be presented to the ACB's amateur radio gathering. Haps talk will run about 30 minutes, so if you plan to be in the Chicago area or are attending the week-long convention, then stop by and take a listen to what KC9RP has to say. And oh yes. The admission to Hap's talk is free.

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#### FRENCH ISLANDS

On the international scene the rumor mills says the French government is going to be doing a lot of electronic updating on the French islands located in the Indian Ocean this summer. As a result, it is thought that there may be a lot of amateur radio activity because of the French amateurs involved in this upgrading.

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#### AUSTRIAN CALLS

The Austrian Communications Authority has opened a block of

special call signs for special operations there. The 26 available calls are OE-A to OE-Zed, with the number assigned depending on the station's geographic location. 14 calls will be reserved for club stations of the Austrian national association, OVSV, with the remaining 12 available for others.

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DX - 4U1ITU

KB2R, will be active from 4U1ITU in Geneva, Switzerland during the IARU HF Championship Contest on July 9 and 10 and two days before. This will be a single operator effort and the 4U1ITU station counts as a HQ multiplier for the contest. Activity will be on 80-10 meters and possibly 160 meters. The two days before the contest, Len will be active as time permits on 80-10 meters CW/SSB and on the WARC bands if antennas are available. QSL the entire operation via WA2CJT, the bureau or direct.

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DX - MICRONESIA

The DX Newsletter reports that V63PA will stay on the island of Micronesia longer than expected. He prefers 14.150 MHz around 21:00 UTC during the weekend. QSL via G6MDM.

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CLOCK ON HOLD

Great Britain's National Physical Laboratory has issued a notice that the 60KHz frequency and time reference transmitter at Rugby, will be closed down for essential maintenance between 12:00 GMT on 4th July 1994 and 12:00 GMT 18th July 1994. G1UXP who provided this information believes that the transmitter will be operational during the night hours in this period, but it will be off-air during the hours between 08:00 GMT and 16:00 GMT daily.

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STU MEYER W2GHK, SK

Some sad news to report. Word that Stu Meyer, W2GHK, the former Chief Engineer and President of Hammerlund Radio Corporation became a silent key on Saturday evening, May 21st, of a heart attack. Among his many accomplishments was his being the driving force behind Hammarlund's "DXpedition of the Month" campaign during the 1950's and 1960's. He was a long-time member of the National Capitol DX Association, past president of NCDXA, and very active in NCDXA's DX operations of past years. W2GHK was also very active in many areas of ham radio, sponsoring one of the





< Fidonet: 1:278/307 US Mail: P.O. Box 396, New York, NY 10002 >  
< Voice: +1 212 995-2637 >

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Date: 27 Jun 94 02:07:01 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ANS-176 BULLETINS  
To: info-hams@ucsd.edu

SB SAT @ AMSAT \$ANS-176.01  
PHASE 3-D STATUS REPORT

HR AMSAT NEWS SERVICE BULLETIN 176.01 FROM AMSAT HQ  
SILVER SPRING, MD JUNE 25, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-176.01

WD4FAB & DB20S Provide Phase 3-D Status Report

The Phase 3-D Project Leader and AMSAT-DL President, Karl Meinzer (DJ4ZC) hosted six days of meetings, 13-18 June 1994 in Marburg, Germany to assess the status of a number of major areas of the project. In attendance at these meetings was Dick Jansson (WD4FAB), AMSAT-NA's Vice-President of Engineering. As a result of these meetings, the Project has ordered the solar arrays and is on the verge of ordering the spacecraft batteries. The selection of the machining contractor for the large aluminum rings for the 2624mm diameter SBS (Spacecraft Bus System) was also discussed and is quite close to being ordered. The SBS, which will be fabricated at Weber State University (WSU) in Ogden, UT, is a large cylinder that is part of the load carrying structure of the Ariane-5 launch vehicle. The Phase 3-D spacecraft is housed inside of the SBS for the ride into orbit.

Discussions were also held with Danny Orban (ON4AOD) on design refinements of the Ku Band transmitter (24 GHz) being constructed in Belgium. Some of these Ku Band transmitter refinements may also be applied to the X Band transmitter being constructed by the AMSAT-OH group at the Helsinki University of Technology in Finland.

One day of the meetings was devoted to very detailed discussions with Bernard LaCoste of the European Space Agency (ESA) regarding the launch configuration of the AR-502 vehicle and the testing that AMSAT will need to do in order to qualify the Phase 3-D spacecraft and the SBS for their launch on AR-502.

Within the next month, AMSAT will conclude the ordering of the major components noted above. Also, in this near time period, the "flight"

spaceframe will arrive at the Florida integration facility and start its final cleaning, painting and assembly. The integration facility, located at the Orlando International Airport, is in the final stages of being prepared for its mission of providing the specialized environment for the spacecraft assembly activities.

[The AMSAT News Service (ANS) would like to thank WD4FAB and DB2OS for this bulletin item. ]

/EX

SB SAT @ AMSAT \$ANS-176.02  
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 176.02 FROM AMSAT HQ  
SILVER SPRING, MD JUNE 25, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-176.02

Weekly OSCAR Status Reports: 18-JUN-94

AO-13: Current Transponder Operating Schedule:

L QST \*\*\* AO-13 TRANSPONDER SCHEDULE \*\*\* 1994 May 07-Jul 11

Mode-B : MA 0 to MA 170 |

Mode-BS : MA 170 to MA 218 |

Mode-S : MA 218 to MA 220 |<- S beacon only

Mode-S : MA 220 to MA 230 |<- S transponder; B trsp. is OFF

Mode-BS : MA 230 to MA 250 | Alon/Alat 230/-5

Mode-B : MA 250 to MA 256 |

Omnis : MA 250 to MA 120 | Move to attitude 180/0, Jul 11

[G3RUH/DB2OS/VK5AGR]

K0-25: The uplink of the K0-25 spacecraft has been recently switched to 145.870 MHz. In addition, the control station is indicating that a reset of the On-Board Computer (OBS) is planned for 20-June-94.  
[K6OYY]

D0-17: D0-17 still continues to transmit its voice message on a downlink frequency of 145.825 MHz.

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0GVT. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

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Date: Sun, 26 Jun 1994 20:23:07 GMT  
From: netcomsv!netcomsv!bongo!julian@decwrl.dec.com  
Subject: Cage Dipole Rings  
To: info-hams@ucsd.edu

In article <FAUNT.94Jun26111329@netcom2.netcom.com> faunt@netcom2.netcom.com (Doug Faunt N6TQS 510-655-8604) writes:

>I saw lots of these when I was in the Soviet Union in 1989. Also,  
>what looked like multisection units. Reminded me of link sausages.  
>  
>Does everyone else go around on vacations scanning rooftops, etc., for  
>antennas when on vacation?

That's funny. Besides seeing a cage dipole at a ship-to-shore station, I have only seen these dipoles at Ruskie embassies in Europe. All seemed to be cut for somewhere around 80M.

--

Julian Macassey, N6ARE julian@bongo.tele.com Voice: (414) 457-0874  
Paper Mail: 210 Bleyer Drive, Sheboygan, Wisconsin 53081-9475

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Date: Sun, 26 Jun 1994 23:09:10 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!msuinfo!harbinger.cc.monash.edu.au!  
news.cs.su.oz.au!metro!ipso!rwc@network.ucsd.edu  
Subject: IPS Daily Report - 26 June 94  
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT  
ISSUED AT 26/2330Z JUNE 1994 BY IPS RADIO AND SPACE SERVICES  
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.  
SUMMARY FOR 26 JUNE AND FORECAST UP TO 29 JUNE

IPS Disturbance Warning 17 was issued on 22 June and is current for interval 24 June to 4 July

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1A. SOLAR SUMMARY  
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 074/011

GOES satellite data for 25 June

Daily Proton Fluence >1 MeV: 1.4E+06

Daily Proton Fluence >10 MeV: 1.5E+04

Daily Electron Fluence >2 MeV: 2.1E+08

X-ray background: A2.9

Fluence (flux accumulation over 24hrs)/ cm2-ster-day.

#### 1B. SOLAR FORECAST

|          | 27 June       | 28 June       | 29 June       |
|----------|---------------|---------------|---------------|
| Activity | Very low      | Very low      | Very low      |
| Fadeouts | None expected | None expected | None expected |

Forecast 10.7 cm flux/Equivalent Sunspot Number : 075/013

#### 1C. SOLAR COMMENT

None.

#### 2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: unsettled to active

| Estimated Indices : | A  | K         | Observed A Index 25 June |
|---------------------|----|-----------|--------------------------|
| Learmonth           | 21 | 3444 3343 |                          |
| Fredericksburg      | 20 |           | 02                       |
| Planetary           | 20 |           | 04                       |

Observed Kp for 25 June: 0101 2113

#### 2B. MAGNETIC FORECAST

| DATE   | Ap | CONDITIONS           |
|--------|----|----------------------|
| 27 Jun | 20 | Unsettled to active. |
| 28 Jun | 16 | Unsettled to active. |
| 29 Jun | 16 | Unsettled to active. |

#### 2C. MAGNETIC COMMENT

Coronal hole sourced disturbance has eventuated and is in progress. Active conditions expected.

#### 3A. GLOBAL HF PROPAGATION SUMMARY

|      | LATITUDE BAND |        |      |
|------|---------------|--------|------|
| DATE | LOW           | MIDDLE | HIGH |

26 Jun        normal                fair                fair

PCA Event : None.

### 3B. GLOBAL HF PROPAGATION FORECAST

#### LATITUDE BAND

| DATE   | LOW    | MIDDLE | HIGH |
|--------|--------|--------|------|
| 27 Jun | normal | fair   | poor |
| 28 Jun | normal | fair   | poor |
| 29 Jun | normal | fair   | poor |

### 3C. GLOBAL HF PROPAGATION COMMENT

Degraded HF comms expected at mid and high lats for next 3 days.

### 4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values

Observed T index for 26 June: 36

Predicted Monthly T Index for June is 30.

### 4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

| DATE   | T-index | MUFs                           |
|--------|---------|--------------------------------|
| 27 Jun | 25      | Near predicted monthly values. |
| 28 Jun | 25      | Near predicted monthly values. |
| 29 Jun | 25      | Near predicted monthly values. |

### 4C. AUSTRALIAN REGION COMMENT

Spread F observed during local night. Geomagnetic activity in progress. Degraded HF comms expected at times during interval June 27 - July 4.

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|                                            |                              |
|--------------------------------------------|------------------------------|
| IPS Regional Warning Centre, Sydney        | IPS Radio and Space Services |
| email: rwc@ips.oz.au    fax: +61 2 4148331 | PO Box 5606                  |
| RWC Duty Forecaster    tel: +61 2 4148329  | West Chatswood NSW 2057      |
| Recorded Message        tel: +61 2 4148330 | AUSTRALIA                    |

Date: Sun, 26 Jun 1994 23:05:01 GMT

From: ihnp4.ucsd.edu!usc!cs.utexas.edu!oakhill!yosemite.sps.mot.com!

ben@network.ucsd.edu

Subject: Mark Your Calendars Now!

To: info-hams@ucsd.edu

In article <2ug12m\$6e7@usenet.srv.cis.pitt.edu>,

Harry Bloomberg <hpb@hpb.cis.pitt.edu> wrote:



--

Mike Schuster | schuster@panix.com | 70346.1745@CompuServe.COM  
----- | schuster@shell.portal.com | GENie: MSCHUSTER

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Date: 26 Jun 1994 22:53:22 -0000  
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!utnut!torn!uunet.ca!uunet.ca!ionews.io.org!  
nobody@network.ucsd.edu  
Subject: What causes pitch shift in receiver?  
To: info-hams@ucsd.edu

I was (trying) to listen to the 80 and 40 meter bands on an inexpensive portable (a Pulser).

What causes the 'pitch shift' effect? ... I.e the person's voice sounds like it's been shifted down an octave or more, and also sounds like it's being fed through a flanger.

Is it just that the receiver cannot isolate a particular frequency well enough?

This happens even with fairly strong signals (they are coming in pretty loud anyway).

Btw, I \*don't\* get this effect with the commercial sw broadcast stations like the bbc.

I did pick up a weak signal that I could barely make out the voice from all the static, however I could \*clearly\* hear the person's voice and exactly what he was saying, i.e. no pitch shift.

Mike

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=====  
Mike Stramba Email: mike@io.org  
Toronto, Canada Internex Online - Toronto, Canada (416) 363-3783  
=====

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End of Info-Hams Digest V94 #708  
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